

=> d his

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FILE 'REGISTRY' ENTERED AT 10:08:34 ON 06 NOV 2008

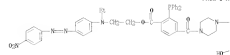
L1 STRUCTURE UPLOADED

L2 2 S L1

L3 54 S L1 FULL

=> d 1-54 ide can

L3 ANKER 6 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN
 IN 002211-59-7 REGISTRY
 SD Entered STN: 12 Jun 2009
 CN Benzoic acid, 2-[[4-phenylphosphino]-4-[[4-[[2-[[6-hydroxy-3-oxo-3H-xanthen-9-yl]benzoyl]-1-piperidinyl]carbonyl]-1-methyl ester] (CA INDEX N0000)
 MF C21 H25 NO P
 SA CA
 LC STN Files: CA, CAPLUS, CASREACT



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PAGE 1-B

***PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT**

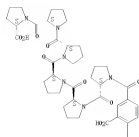
1 REFERENCES IN FILE CA (1969 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1969 TO DATE)

REFERENCE 1: 148-870694

L3 ANKER 5 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN
 IN 006958-42-5 REGISTRY
 SD Entered STN: 10 Jun 2006
 CN INDEX NAME NOT YET ASSIGNED
 LC FURTHER UNCOMMON, STEREOBONDING
 MF C31 H26 NE O13
 SA Whole Sources
 Database: ChemSpider (ChemDuo, Inc.)

***RELATED SEQUENCES AVAILABLE WITH SIMILAR**

Absolute stereochemistry.



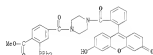
PAGE 2-A



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***PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT**

L3 ANKER 6 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN
 IN 040602-61-7 REGISTRY
 SD Entered STN: 06 Sep 2003
 CN Benzoic acid, 2-[[4-phenylphosphino]-4-[[4-[[2-[[6-hydroxy-3-oxo-3H-xanthen-9-yl]benzoyl]-1-piperidinyl]carbonyl]-1-methyl ester] (CA INDEX N0000)
 MF C21 H25 NO P
 SA CA
 LC STN Files: CA, CAPLUS, CASREACT



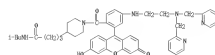
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 2 REFERENCES IN FILE CAPLUS (1969 TO DATE)

REFERENCE 1: 148-812228

REFERENCE 2: 147-271948

L3 ANKER 7 OF 64 REGISTRY COPYRIGHT 2008 ACS on STN
 IN 000690-15-6 REGISTRY
 SD Entered STN: 17 Apr 2007
 CN 4-Piperidinylbenzoate, 1-[[4-[[2-[[6-hydroxy-3-oxo-3H-xanthen-9-yl]benzoyl]-1-piperidinyl]carbonyl]-1-methyl ester] (CA INDEX N0000)
 MF C21 H25 NO P
 SA CA
 LC STN Files: CA, CAPLUS



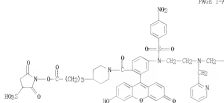
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1 REFERENCES IN FILE CA (1969 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1969 TO DATE)

REFERENCE 1: 146-275883

L3 ANWER 9 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
 IN 000259-15-0 REGISTRY
 SD Entered STN: 02 Oct 2006
 ON 4-Piperidylsuccinate, acid, 1-[4-[[2-[bis(2-pyrrolidinylmethyl)amino]ethyl][4-nitrophenyl]sulfonyl]amino]-2-[6-hydroxy-3-oxo-2H-naphthen-9-yl]benzoyl]-5,6-dioxo-2-sulfo-5-pyrrolidinyl ester (CA INDEX NAME)
 OTHER CA INDEX NAME:
 ON 2-Pyrrolidinemesulfonate, acid, 1-[4-[[1-[4-[[2-[bis(2-pyrrolidinylmethyl)amino]ethyl][4-nitrophenyl]sulfonyl]amino]-2-[6-hydroxy-3-oxo-2H-naphthen-9-yl]benzoyl]-4-pyrrolidinyl]-1-sulfonyl]-2,5-dioxo (XCI)
 MF CSD 360 MW 610.52
 SI CA
 LC STN Files: CA, CAPLUS, CASREACT

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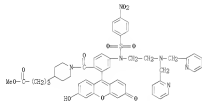
PAGE 1-B



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 1 REFERENCE IN FILE CAPLUS (1960 TO DATE)

REFERENCE 1: 145 500650

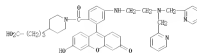
L3 ANWER 10 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
 IN 000259-04-7 REGISTRY
 SD Entered STN: 28 Sep 2006
 ON 4-Piperidylsuccinate, acid, 1-[4-[[2-[bis(2-pyrrolidinylmethyl)amino]ethyl][4-nitrophenyl]sulfonyl]amino]-2-[6-hydroxy-3-oxo-2H-naphthen-9-yl]benzoyl]-5,6-dioxo-2-sulfo-5-pyrrolidinyl ester (CA INDEX NAME)
 MF CSD 360 MW 610.5
 SI CA
 LC STN Files: CA, CAPLUS, CASREACT



PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT
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 1 REFERENCE IN FILE CAPLUS (1960 TO DATE)

REFERENCE 1: 145 500650

L3 ANWER 9 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
 IN 000259-09-2 REGISTRY
 SD Entered STN: 02 Oct 2006
 ON 4-Piperidylsuccinate, acid, 1-[4-[[2-[bis(2-pyrrolidinylmethyl)amino]ethyl]amino]-2-[6-hydroxy-3-oxo-2H-naphthen-9-yl]benzoyl]-5,6-dioxo-2-sulfo-5-pyrrolidinyl ester (CA INDEX NAME)
 MF CSD 360 MW 610
 SI CA
 LC STN Files: CA, CAPLUS, CASREACT



PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT
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 2 REFERENCE IN FILE CAPLUS (1960 TO DATE)

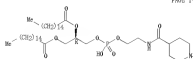
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REFERENCE 2: 146 500650

L3 ANWER 11 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN
 IN 000271-22-2 REGISTRY
 SD Entered STN: 28 Sep 2006
 ON Hexadecanoic acid, (1S)-1-[[[2-[[[1-[4,6-diamino-2-oxo-6-(4-hydroxy-2H-naphthen-9-yl)benzoyl]-4-piperidyl]carbamoyl]amino]ethoxy]hydroxyphosphoryl]oxy]methyl]-1,2-epoxybutyl ester (XCI) (CA INDEX NAME)
 MF STEREOBOND
 MF CSD 360 MW 613.7
 SI CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.

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 1 REFERENCE IN FILE CAPLUS (1960 TO DATE)

REFERENCE 1: 146 280860

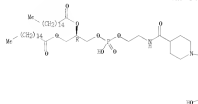
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CA ANCHOR 12 00 00 REGISTRY COPYRIGHT 2009 ACS on STN
LN 006571-21-1 REGISTRY
CN Entered STN 28 Sep 2006
PG Hexadecanoic acid, [1R]-1-[[[2-[[[1-[4-amino-2-[[3,6-dihydroxy-9H-xanthen-
LN 006571-21-1-4-ylidene]-1,4-dihydro-2H-pyridin-2-ylidene]oxy]hydrazophosphoryl
PG 11oxyl]ethoxy]-1,2-ethanedyl] ester (DCT) (ANALYST NAME)
PG STEINBERGER
MC OES HEG NA 016 F
ST CA
LN STN Files: CA, CAPLIS

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Absolute stereochemistry

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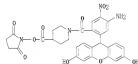
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPUS (1907 TO DATE)

REFERENCE 1: 145 269068

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LN ANWER 15 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
LN 99571-20-0 REGISTRY
ED Entered STN: 25 SEP 2006
CN 4-Piperidineoxaloic acid, 1-[4-amino-2-(3,6-dihydroxy-9H-xanthen-9-yl)-
8-mitrobenzoyl], 2,6-dioxo-1-pyrrolidinyl ester (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Piperidine, 1-[4-amino-2-(3,6-dihydroxy-9H-xanthen-9-yl)-6-nitrobenzoyl]-4-
[[2,6-dioxo-1-pyrrolidinyl]oxy]carbonyl]- (AC)
MF C50 E26 N4 010
CA
LC STN Files: CA, CAPICS

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==PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT==

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2 REFERENCES IN FILE CAPUS (1907 TO DATE)

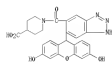
REFERENCE 1- 145-289068

13. ANCHOR 12 OF 54. REGISTRY. COPYRIGHT 2006 ACS on STN. (Continued)

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LN ANSWER 14 OF 100 REGISTRY COPYRIGHT 2009 ACS on STN
IN 906371-19-7 REGISTRY
EO Entered STN: 26 Sep 2006
C 4-Ferriidinoacryloylic acid, 3-[[[6-C,6-dihydroxy-9H-santhén-9-yl]-1H-
benzotriazol-6-yl]carboonyl]- CA INDEX NAME
OTHER CA INDEX NAMES:
C 4-Ferriidinoacryloylic acid, 3-[[[6-C,6-dihydroxy-9H-santhén-9-yl]-1H-
benzotriazol-6-yl]carboonyl]- (Xc1)
MF CSE H22 NA 06
SK CA
LC STN File: CA CAPUS

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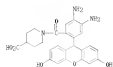


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1 REFERENCES IN FILE CAPUS (1907 TO DATE)

REFERENCE 1: 145:268068

L3 ANWER 15 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 000271-26-6 REG12707
 SD Entered STN: 28 Sep 2006
 CN 4-Piperidinecarboxylic acid, 1-[4,5-bisamino-2-(3,6-dihydroxy-9H-xanthen-9-yl)benzoyl]- (CA INDEX NAME)
 MF CHE RES NO 06
 SA CA
 LC STN Files: CA, CAPLIS

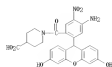


***PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT**

1 REFERENCES IN FILE CA (1960 TO DATE)
 1 REFERENCES IN FILE CAPLIS (1960 TO DATE)

REFERENCE 1: 145-289068

L3 ANWER 16 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 000271-27-8 REG12707
 SD Entered STN: 28 Sep 2006
 CN 4-Piperidinecarboxylic acid, 1-[4-amino-2-(3,6-dihydroxy-9H-xanthen-9-yl)-5-nitrobenzoyl]- (CA INDEX NAME)
 MF CHE RES NO 06
 SA CA
 LC STN Files: CA, CAPLIS

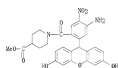


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1 REFERENCES IN FILE CA (1960 TO DATE)
 1 REFERENCES IN FILE CAPLIS (1960 TO DATE)

REFERENCE 1: 145-289068

L3 ANWER 17 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 000271-26-6 REG12707
 SD Entered STN: 28 Sep 2006
 CN 4-Piperidinecarboxylic acid, 1-[4-amino-2-(3,6-dihydroxy-9H-xanthen-9-yl)-5-nitrobenzoyl]-, methyl ester (CA INDEX NAME)
 MF CHE RES NO 06
 SA CA
 LC STN Files: CA, CAPLIS



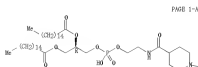
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1 REFERENCES IN FILE CA (1960 TO DATE)
 1 REFERENCES IN FILE CAPLIS (1960 TO DATE)

REFERENCE 1: 145-289068

L3 ANWER 18 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 000271-28-5 REG12707
 SD Entered STN: 28 Sep 2006
 CN Heptadecanoic acid, 1-[2-[1-[[[2-[1-[[[2-(3,6-dihydroxy-9H-xanthen-9-yl)benzoyl]-4-piperidinyl]carbonyl]amino]ethoxyphosphoryl]oxy]methyl]-1,1,1-trichloroethyl ester]octyl- (CA INDEX NAME)
 MF STEREOBOND
 MF CHE RES NO 03 P
 SA CA
 LC STN Files: CA, CAPLIS

Absolute stereochemistry.



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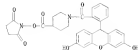


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1 REFERENCES IN FILE CA (1960 TO DATE)
 1 REFERENCES IN FILE CAPLIS (1960 TO DATE)

REFERENCE 1: 145-289068

L3 ANKER 19 OF 64 REGISTRY COPYRIGHT 2009 ACS on STN
 IN 006271-14-2 REGISTRY
 SD Entered STN: 28 Sep 2006
 CN 4-Piperidinecarboxylic acid, 1-[2-(3,4,6-trihydroxy-9H-xanthen-9-yl)benzoyl]-
 CA INDEX NAME:
 CA 4-Piperidine, 1-[2-(3,4,6-trihydroxy-9H-xanthen-9-yl)benzoyl]-4-[[[2,6-dimethyl-1-
 pyridinyl]oxy]carbonyl]- (XCI)
 MF C20 H26 N2 O6
 CA
 LC STN Files: CA, CAPLUS



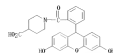
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 REFERENCE 1: 145 284068

L3 ANKER 21 OF 64 REGISTRY COPYRIGHT 2009 ACS on STN
 IN 076752-72-7 REGISTRY
 SD Entered STN: 14 Mar 2006
 CN 9H-Xanthen-9-ylidene 6-hydroxy-9-(2-methoxy-4-(1-pyrrolidinyl)carboxyl)phenyl]-
 CA INDEX NAME:
 CA 9-Pyrrolidone, 1-[4-(6-hydroxy-3-oxo-9H-xanthen-9-yl)-3-methoxybenzoyl]-
 (XCI)
 MF C26 H24 N2 O6
 CA
 LC STN Files: CA, CAPLUS, CAIRREACT



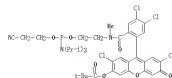
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 2 REFERENCE(S) IN FILE CAPLUS (1969 TO DATE)
 REFERENCE 1: 146 164648
 REFERENCE 2: 144 224606

L3 ANKER 20 OF 64 REGISTRY COPYRIGHT 2009 ACS on STN
 IN 006271-15-3 REGISTRY
 SD Entered STN: 28 Sep 2006
 CN 4-Piperidinecarboxylic acid, 1-[2-(3,4,6-trihydroxy-9H-xanthen-9-yl)benzoyl]-
 CA INDEX NAME:
 MF C20 H26 N2 O6
 CA
 LC STN Files: CA, CAPLUS



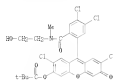
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 1 REFERENCE(S) IN FILE CAPLUS (1969 TO DATE)
 REFERENCE 1: 145 284068

L3 ANKER 22 OF 64 REGISTRY COPYRIGHT 2009 ACS on STN
 IN 001142-20-3 REGISTRY
 SD Entered STN: 18 Aug 2006
 CN Propanoic acid, 2,2-dimethyl-, 9-[2-[[[2-[[[bis(4-methylethyl)amino]2-cyanoethyl]oxy]ethoxy]ethoxy]ethyl]amino]butenyl]-4,6-dichlorophenyl]-
 2,7-dichloro-5-oxo-9H-xanthen-9-yl ester (CA INDEX NAME)
 OTHER CA INDEX NAME:
 CN Propanoic acid, 2,2-dimethyl-, 9-[2-[[[2-[[[bis(4-methylethyl)amino]-2-cyano-2-methyl-1-oxo-5,7-dioxo-2-oxa-6-phosphonoxyl-yl]-4,6-dichlorophenyl]-2,7-dichloro-5-oxo-9H-xanthen-9-yl ester (XCI)
 MF C37 H40 Cl4 N6 O7 P
 CA
 LC STN Files: CA, CAPLUS, TOXINTER, USFATL, USFATPL



****PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT****
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 2 REFERENCE(S) IN FILE CAPLUS (1969 TO DATE)
 REFERENCE 1: 149 234640
 REFERENCE 2: 145 369180

L3 ANWER 25 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 IN 061143-24-0 REGISTRY
 ID Entered STN: 19 Aug 2006
 ON Propanoic acid, 2,2-dimethyl-, 3,7-dichloro-9-[4,6-dichloro-2-[(2-hydroxyethyl)(methoxycarbonyl)phenyl]-5-oxo-3H-xanthen-6-yl] ester (CA INDEX NAME)
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 SR CA
 LC STN Files: CA, CAPLIS, TOXCENTRA, USPATA, USPATFULL



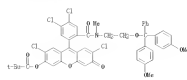
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2 REFERENCES IN FILE CA (1909 TO DATE)
 2 REFERENCES IN FILE CAPLIS (1909 TO DATE)

REFERENCE 1: 149:354040

REFERENCE 2: 143:169180

L3 ANWER 24 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 IN 061143-25-0 REGISTRY
 ID Entered STN: 19 Aug 2006
 ON Propanoic acid, 2,2-dimethyl-, 9-[2-[[[2-Dia(4-methoxyphenyl)phenylmethoxy]ethyl]methoxycarbonyl]-4,5-dichloroethyl]-5,7-dichloro-3-oxo-3H-xanthen-6-yl] ester (CA INDEX NAME)
 MF C49 H41 Cl4 N O6
 SR CA
 LC STN Files: CA, CAPLIS, TOXCENTRA, USPATA, USPATFULL



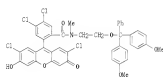
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2 REFERENCES IN FILE CA (1909 TO DATE)
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REFERENCE 1: 149:354040

REFERENCE 2: 143:169180

L3 ANWER 26 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 IN 061143-26-0 REGISTRY
 ID Entered STN: 19 Aug 2006
 ON Benzamide, N-[2-Dia(4-methoxyphenyl)phenylmethoxy]ethyl]-4,6-dichloro-2-(2,7-dichloro-6-hydroxy-3-oxo-3H-xanthen-9-yl)-N-methyl- (CA INDEX NAME)
 MF C44 H33 Cl4 N O7
 SR CA
 LC STN Files: CA, CAPLIS, TOXCENTRA, USPATA, USPATFULL



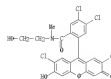
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2 REFERENCES IN FILE CA (1909 TO DATE)
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REFERENCE 1: 149:354040

REFERENCE 2: 143:169180

L3 ANWER 30 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 IN 061143-20-0 REGISTRY
 ID Entered STN: 19 Aug 2006
 ON Benzamide, 4,6-dichloro-2-(2,7-dichloro-6-hydroxy-3-oxo-3H-xanthen-9-yl)-N-(2-hydroxyethyl)-N-methyl- (CA INDEX NAME)
 MF C35 H25 Cl4 N O6
 SR CA
 LC STN Files: CA, CAPLIS, TOXCENTRA, USPATA, USPATFULL



***PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT**

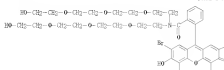
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REFERENCE 1: 149:354040

REFERENCE 2: 143:169180

L3 ANWER 23 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 IN 73525-49-4 REGISTRY
 SD Entered STN: 02 Nov 2004
 CN Benzamide, N,N-bis[2-[2-(2-(2-hydroxyethoxy)ethoxy)ethyl]-2-
 O,4,6,7-tetrabromo-6-hydroxy-3-oxo-8H-xanthen-9-yl]- (CA INDEX NAME)
 MF C46 H41 Br4 N O12
 CI COM
 CR CA

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***PROPERTY DATA AVAILABLE IN THE "FROM" FORMAT**

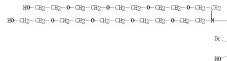
L3 ANWER 29 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 IN 744142-97-0 REGISTRY
 SD Entered STN: 12 Sep 2004
 CN 8H-Xanthin-9-one, 1-[2-[2-(2-(2-hydroxyethoxy)ethyl)-2-O,4,6,7-tetrabromo-6-hydroxy-3-oxo-8H-xanthin-9-yl]ethoxy] (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN 10B-Phenothiazine-3,7-diamine, N,N,N',N'-tetramethyl-10-[2-O,4,6,7-tetrabromo-6-hydroxy-3-oxo-8H-xanthin-9-yl]benzoyl- (DCI)
 MF C46 H35 Br4 N2 O4 S
 CI COM
 CR CA



***PROPERTY DATA AVAILABLE IN THE "FROM" FORMAT**

L3 ANWER 26 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 IN 738641-PE-8 REGISTRY
 SD Entered STN: 09 Oct 2004
 CN Benzamide, 2,3,4,5-tetrachloro-N-bis[14-hydroxy-5,6,9,12-tetrasubstituted-1-yl]-6-O,4,6,7-tetrabromo-6-hydroxy-3-oxo-8H-xanthen-9-yl- (CA INDEX NAME)
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 CI COM
 CR CA

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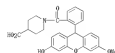


PAGE 1-B



***PROPERTY DATA AVAILABLE IN THE "FROM" FORMAT**

L3 ANWER 50 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 IN 80067-90-6 REGISTRY
 SD Entered STN: 22 Jun 2008
 CN 6-Piperidinocarbonyls acid, 1-[2-(2-hydroxy-6-methoxy-8H-xanthen-9-yl)benzoyl]- (CA INDEX NAME)
 MF C27 H25 N O6
 CR CA
 LC STN Files: CA, CASFILE, CASREACT

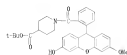


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 1 REFERENCES IN FILE CASFILE (1967 TO DATE)

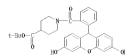
REFERENCES 1: 136734690

L3 ANWER 51 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 480067-88-2 REGISTRY
 ED Entered STN: 22 Jan 2000
 CN 4-Piperidinecarboxylic acid, 1-[2-(3-hydroxy-6-methoxy-9H-xanthen-9-yl)benzoyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)
 MF C20 H25 N O6
 DS CA
 LC STN Files: CA, CAPLUS, CASREACT



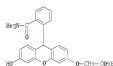
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 1 REFERENCES IN FILE CAPLUS (1969 TO DATE)
 REFERENCE 1: 158-74690

L3 ANWER 52 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 480067-81-0 REGISTRY
 ED Entered STN: 22 Jan 2000
 CN 4-Piperidinecarboxylic acid, 1-[2-(3,6-dihydroxy-9H-xanthen-9-yl)benzoyl]-, 1,1-dimethylethyl ester (CA INDEX NAME)
 MF C20 H21 N O6
 DS CA
 LC STN Files: CA, CAPLUS, CASREACT



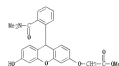
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 1 REFERENCES IN FILE CAPLUS (1969 TO DATE)
 REFERENCE 1: 158-74690

L3 ANWER 53 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 480067-76-0 REGISTRY
 ED Entered STN: 22 Jan 2000
 CN Acetic acid, 2-[[[2-[[4-(dimethylamino)carbonyl]phenyl]-6-hydroxy-9H-xanthen-3-yl]oxyl]-methyl ester (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Acetic acid, 2-[[[2-[[4-(dimethylamino)carbonyl]phenyl]-6-hydroxy-9H-xanthen-3-yl]oxyl]-methyl ester (CA INDEX NAME)
 MF C24 H25 N O6
 DS CA
 LC STN Files: CA, CAPLUS, CASREACT



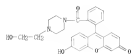
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 1 REFERENCES IN FILE CAPLUS (1969 TO DATE)
 REFERENCE 1: 158-74690

L3 ANWER 54 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 480067-71-8 REGISTRY
 ED Entered STN: 22 Jan 2000
 CN Acetic acid, 2-[[[2-[[4-(dimethylamino)carbonyl]phenyl]-6-hydroxy-9H-xanthen-3-yl]oxyl]-methyl ester (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Acetic acid, 2-[[[2-[[4-(dimethylamino)carbonyl]phenyl]-6-hydroxy-9H-xanthen-3-yl]oxyl]-methyl ester (CA INDEX NAME)
 MF C24 H25 N O6
 DS CA
 LC STN Files: CA, CAPLUS, CASREACT



****PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT****
 1 REFERENCES IN FILE CA (1969 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1969 TO DATE)
 REFERENCE 1: 158-74690

13 ANWER 55 OF 54 REGISTRY COPYRIGHT 2009 ACS ON STN
 IN 45312-79-2 REGISTRY
 SD Entered STN: 26 Sep 2002
 ON 3H-xanthen-3-one, 6-hydroxy-9-[2-[[4-(2-hydroxyethyl)-1-(piperazinyl)carbonyl]phenyl]- (CA INDEX NAME)
 OTHER CA INDEX NAME:
 CA 1-Piperazinylmethanone, 4-[2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]- (GCI)
 MF CHE 154 NO 06
 SA
 LC STN Files: CA, CAPLIS

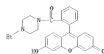


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 1 REFERENCES IN FILE CAPLIS (1969 TO DATE)

REFERENCE 1: 137:213069

13 ANWER 56 OF 54 REGISTRY COPYRIGHT 2009 ACS ON STN
 IN 45312-77-6 REGISTRY
 SD Entered STN: 26 Sep 2002
 ON 3H-xanthen-3-one, 6-hydroxy-9-[2-[[4-ethyl-1-piperazinyl]carbonyl]phenyl]-6-hydroxy- (CA INDEX NAME)
 OTHER CA INDEX NAME:
 CA Piperazine, 4-ethyl-4-[2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]- (GCI)
 MF CHE 154 NO 06
 SA
 LC STN Files: CA, CAPLIS

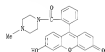


***PROPERTY DATA AVAILABLE IN THE "FROM" FORMAT**

1 REFERENCES IN FILE CA (1969 TO DATE)
 1 REFERENCES IN FILE CAPLIS (1969 TO DATE)

REFERENCE 1: 137:213069

13 ANWER 57 OF 54 REGISTRY COPYRIGHT 2009 ACS ON STN
 IN 45312-76-5 REGISTRY
 SD Entered STN: 26 Sep 2002
 ON 3H-xanthen-3-one, 6-hydroxy-9-[2-[[4-methyl-1-piperazinyl]carbonyl]phenyl]- (CA INDEX NAME)
 OTHER CA INDEX NAME:
 CA 1-Piperazinylmethanone, 4-[2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]-4-methyl- (GCI)
 MF CHE 152 NO 06
 SA
 LC STN Files: CA, CAPLIS



***PROPERTY DATA AVAILABLE IN THE "FROM" FORMAT**

1 REFERENCES IN FILE CA (1969 TO DATE)
 1 REFERENCES IN FILE CAPLIS (1969 TO DATE)

REFERENCE 1: 137:213069

13 ANWER 58 OF 54 REGISTRY COPYRIGHT 2009 ACS ON STN
 IN 45312-75-9 REGISTRY
 SD Entered STN: 26 Sep 2002
 ON 3H-xanthen-3-one, 6-hydroxy-9-[2-[[1-piperazinyl]carbonyl]phenyl]- (CA INDEX NAME)
 OTHER CA INDEX NAME:
 CA Piperazine, 1-[2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]- (GCI)
 MF CHE 154 NO 06
 SA
 LC STN Files: CA, CAPLIS, CASREACT



***PROPERTY DATA AVAILABLE IN THE "FROM" FORMAT**

3 REFERENCES IN FILE CA (1969 TO DATE)
 3 REFERENCES IN FILE CAPLIS (1969 TO DATE)

REFERENCE 1: 148:879694

REFERENCE 2: 147:271848

REFERENCE 3: 137:213069

U.S. ANCHOR 20 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN

PN 451908-38-0 REGISTRY

ES Entered STN. 18 Sep 2000
CN Lobsenz, J. J. 10/2/00

[illegible]

PS PROTEIN SEQUENCE, STEREOGRAPHIC
ME C90 H110 N14 O19

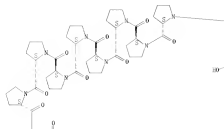
SR CA

LC STN Files: CA, CAPLIS

↔RELATED SEQUENCES AVAILABLE WITH SEQINDEX↔

Absolute stereochemistry

PAGE 1-A



PAGE 1-B



L3 ANSWER 40 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN

REV 442151-08-0 REGISTRY
 Released STN: 03 Aug 2002

Entered SIN: 02 Aug 2002
Benzamide, 2- (3, 6-dihydro

(c) Benzanilide, 2'-*o*,6'-dihydroxy-*o*-nitrobenzyl-2'-yl-16, *N*-dimethyl- (CA 120044)
NAMED

C22

LC STN File# CA CAPCIS CASREACT INSPATFILL



==PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT==

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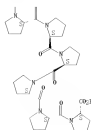
2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPUS (1907 TO DATE)

REFERENCE 1: 138 74626

REFERENCE 2: 13T 95164

L3 ANKRR 29 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN (Continued)

PMIR 2-A



==PROPERTY DATA AVAILABLE IN THE "F808" FORMAT==

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1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLES (1907 TO DATE)

REFERENCE 1. 137-201596

L3 ANSWER 41 OF 54 REGISTRY COPYRIGHT 2008 ACS on STN

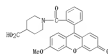
BN 442151-16-6 REGISTRY
 FD Released STN: 02 Aug

Entered SIN: 02 Aug 2000
4-Phenylidiminoacetic acid

CA 4-Piperidinylcarboxylic acid, 1-[2-(6-methoxy-3-oxo-3H-indol-5-yl)benzoyl]- (CA INDEX NAME)

MF C27 H23 N O6

LC STN Filings: CA, CAPSIS, CHEMCATS, INSPATFULL



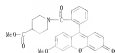
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1. **RESEARCHERS IN FIELD CA (1960 TO DATE)**

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPUS (1907 TO DATE)

REFERENCE 1: IST-26164

L3 ANWER 42 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 IN 442151-54-4 REGISTRY
 ED Entered STN: 02 Aug 2002
 ON 4-Piperidylcarboxylic acid, 1-[2-(6-methoxy-3-oxo-3H-naphthen-6-yl)benzoyl]-, methyl ester (CA INDEX NAME)
 MF C28 H35 N O6
 DS CA
 LC STN Files: CA, CAPLUS, USPAPULL

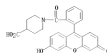


PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT

1 REFERENCES IN FILE CA (1969 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1969 TO DATE)

REFERENCE 1: 137 96164

L3 ANWER 42 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 IN 442151-52-2 REGISTRY
 ED Entered STN: 02 Aug 2002
 ON 4-Piperidylcarboxylic acid, 1-[2-(6-hydroxy-3-oxo-3H-naphthen-6-yl)benzoyl]- (CA INDEX NAME)
 MF C26 H27 N O6
 DS CA
 LC STN Files: CA, CAPLUS, USPAPULL

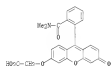


PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT

1 REFERENCES IN FILE CA (1969 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1969 TO DATE)

REFERENCE 1: 137 96164

L3 ANWER 44 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 IN 442151-60-0 REGISTRY
 ED Entered STN: 02 Aug 2002
 ON Acetic acid, 2-[[19-[2-(dimethylamino)carbonyl]phenyl]-3-oxo-3H-naphthen-6-yl]oxy]-, methyl ester (CA INDEX NAME)
 OTHER CA INDEX NAME:
 ON Acetic acid, 1[19-[2-(dimethylamino)carbonyl]phenyl]-3-oxo-3H-naphthen-6-yl]oxy]-, methyl ester (XZ)
 MF C34 H39 N O6
 DS CA
 LC STN Files: CA, CAPLUS, CHEMCAT, USPAPULL

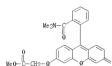


PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT

1 REFERENCES IN FILE CA (1969 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1969 TO DATE)

REFERENCE 1: 137 96164

L3 ANWER 42 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 IN 442151-60-6 REGISTRY
 ED Entered STN: 02 Aug 2002
 ON Acetic acid, 2-[[19-[2-(dimethylamino)carbonyl]phenyl]-3-oxo-3H-naphthen-6-yl]oxy]-, methyl ester (CA INDEX NAME)
 OTHER CA INDEX NAME:
 ON Acetic acid, 1[19-[2-(dimethylamino)carbonyl]phenyl]-3-oxo-3H-naphthen-6-yl]oxy]-, methyl ester (XZ)
 MF C34 H39 N O6
 DS CA
 LC STN Files: CA, CAPLUS, USPAPULL



PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT

1 REFERENCES IN FILE CA (1969 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1969 TO DATE)

REFERENCE 1: 137 96164

L3 ANWER 46 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 642151-46-4 REGISTRY
 SD Entered STN: 21 Oct 2002
 CN Benzamide, 2-[6-hydroxy-3-oxo-5H-xanthen-9-yl]-N,N-dimethyl- CA INDEX
 NAME
 MF C22 H27 N O4
 SX CA
 LC STN Files: CA, CAPLIS, USPAPPL



****PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT****
 1 REFERENCES IN FILE CA (1969 TO DATE)
 1 REFERENCES IN FILE CAPLIS (1969 TO DATE)
 REFERENCE 1: 157 96364

L3 ANWER 47 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 110095-45-2 REGISTRY
 SD Entered STN: 21 Oct 1997
 CN Benzamide, 2-[2,6-dimethoxy-9H-xanthen-9-yl]-N,N-diethyl- CA INDEX NAME
 MF C24 H27 N O4
 SX CA
 LC STN Files: CA, CAPLIS



****PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT****
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 1 REFERENCES IN FILE CAPLIS (1969 TO DATE)
 REFERENCE 1: 167 187457

L3 ANWER 48 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 110943-45-0 REGISTRY
 SD Entered STN: 24 Oct 1997
 CN Benzamide, 2-[2,6-dimethoxy-9H-xanthen-9-yl]-N,N-diphenyl- CA INDEX
 NAME
 MF C24 H27 N O4
 SX CA
 LC STN Files: CA, CAPLIS



****PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT****
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 1 REFERENCES IN FILE CAPLIS (1969 TO DATE)
 REFERENCE 1: 167 187457

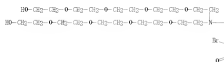
L3 ANWER 49 OF 54 REGISTRY COPYRIGHT 2009 ACS on STN
 RN 110943-45-0 REGISTRY
 SD Entered STN: 24 Oct 1997
 CN Benzamide, 2-[2,6-dimethoxy-9H-xanthen-9-yl]-N-methyl-N-phenyl- CA INDEX
 NAME
 MF C21 H25 N O4
 SX CA
 LC STN Files: CA, CAPLIS



****PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT****
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 1 REFERENCES IN FILE CAPLIS (1969 TO DATE)
 REFERENCE 1: 167 187457

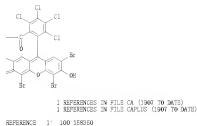
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 BN 0626-00-2 REGISTRY
 SD Entered STN 16 Nov 1994
 CN Benzamide, 2,3,4,5-tetrachloro-N-bis[4-hydroxy-3,6,8,12-tetramethyl-6-(1'-[4-(2,4,6,7-tetrahydro-6-hydroxy-3-oxo-3H-naphthen-9-yl)-, sodium salt (1:1)]-CA INDEX NAME)
 OTHER CA INDEX NAME:
 CN Benzamide, 2,3,4,5-tetrachloro-N-bis[4-hydroxy-3,6,8,12-tetramethyl-6-(1'-[4-(2,4,6,7-tetrahydro-6-hydroxy-3-oxo-3H-naphthen-9-yl)-, monosodium salt (0:1)]-CA INDEX NAME)
 MF C40 H34 Cl4 N2 Na
 LC STN Files: CA, CAPLIS
 CKN (75941-76-8)

PAGE 1-A

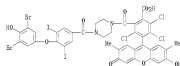


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PAGE 1-B



LS NUMBER 02 04 REGISTRY COPYRIGHT 2008 ACS on STN
 BN 0000-72-1 REGISTRY
 SD Entered STN 16 Nov 1994
 CN Benzoic acid, 2,3,5-trichloro-6-[[4-[[4-(2,4,6-dichloro-4-hydroxyphenox)-3,5-dichlorophenyl]-3-pyridinyl]carbonyl]-5-(6-hydroxy-2,7-dimethyl-3-oxo-3H-naphthen-9-yl)-CA INDEX NAME)
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 LC STN Files: CA, CAPLIS, CASREACT, USPAPULL



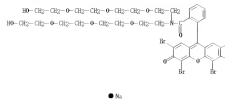
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 1 REFERENCES IN FILE CAPLIS (1960 TO DATE)

REFERENCE 1: 97 121175

LS NUMBER 01 04 REGISTRY COPYRIGHT 2008 ACS on STN
 BN 0619-47-1 REGISTRY
 SD Entered STN 16 Nov 1994
 CN Benzamide, N-bis[2-[2-(2-hydroxyethoxy)ethoxy]ethyl]-2-(2,4,6,7-tetrahydro-6-hydroxy-3-oxo-3H-naphthen-9-yl)-, sodium salt (1:1)
 (CA INDEX NAME)
 OTHER CA INDEX NAME:
 CN Benzamide, N-bis[2-[2-(2-hydroxyethoxy)ethoxy]ethyl]-2-(2,4,6,7-tetrahydro-6-hydroxy-3-oxo-3H-naphthen-9-yl)-, monosodium salt (0:1)
 MF C24 H34 N2 O11 Na
 LC STN Files: CA, CAPLIS
 CKN (77535-02-4)

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Br...

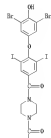
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1 REFERENCES IN FILE CA (1960 TO DATE)
 1 REFERENCES IN FILE CAPLIS (1960 TO DATE)

REFERENCE 1: 100 18050

LS NUMBER 02 04 REGISTRY COPYRIGHT 2008 ACS on STN
 BN 0000-72-0 REGISTRY
 SD Entered STN 16 Nov 1994
 CN Benzoic acid, 2,4,6-trichloro-6-[[4-[[4-(2,4,6-dichloro-4-hydroxyphenox)-3,5-dichlorophenyl]-3-pyridinyl]carbonyl]-5-(6-hydroxy-2,7-dimethyl-3-oxo-3H-naphthen-9-yl)-CA INDEX NAME)
 MF C40 H25 Br2 Cl3 I2 N2 O9
 LC STN Files: CA, CAPLIS, CASREACT, USPAPULL

PAGE 1-A



PAGE 2-A

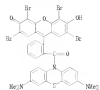


PROPERTY DATA AVAILABLE IN THE "PROP" FORMAT

1 REFERENCES IN FILE CA (1960 TO DATE)
 1 REFERENCES IN FILE CAPLIS (1960 TO DATE)

REFERENCE 1: 97 121175

L3 ANWER 54 00 54 REGISTRY OFFICER 2009 ACS on STN
 IN 0246-01-1 REGISTRY
 ID Entered STN 25 Nov 2004
 ON 06-Phenothiazine-2,7-diamine, N,N,N',N'-tetramethyl-10-[2-(3,4,5,7-tetrahydro-6-hydroxy-2-methyl-2H-naphtho[9,2]benzo[1,2-b:4,5-b']pyridin-9-yl)benzoyl]-, sodium salt (9CI)
 CA INDEX NAME
 MF CMC
 LG STN Files: CA, CAPSIS
 CHN 04416199-0



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1 REFERENCES IN FILE CA (1960 TO 2000)
 1 REFERENCES IN FILE CAPSIS (1960 TO 2000)

REFERENCE 1 01-74890

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FILE COVERS 1907 - 6 Nov 2008 VOL 149 ISS 19
FILE LAST UPDATED: 4 Nov 2008 (20081104/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

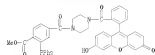
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- LA NUMBER 6 OF 19 CAPLUS OMPRIEST 2006 ACS on STN
AN 2006 155493 CAPLUS
IN 148-111225
TI Identification of palmitoylated mitochondrial proteins using a
bio-orthogonal azido-palmitate analogs
AU Koutida, Maira A.; Corey, Maria W.; Tellez, Bernd O.; Plummer, Greg;
Peschke, Jennifer A.; Bangerter, Matthew J.; Bertozzi, Carolyn R.;
C2 Rajala, Girvan; Paley, John K.; Berthiaume, Louis O.
C3 Department of Cell Biology, Faculty of Medicine and Dentistry, University
of Alberta, Edmonton, AB, Can
D1 PNAS Journal (2006), 103(1), 221-222
D2 ISSN 1063-4269, ISSN 0970-6480
D3 CODEN PNASJ
D4 Publication of American Society for Experimental Biology
D5 English
D6 ACSBECT 148-111225
AS Increased levels of circulating saturated free fatty acids such as palmitate,
have been implicated in the etiol. of type II diabetes and cancer. In
addition to being a constituent of glycerolipids and a source of energy,
palmitate also covalently attaches to numerous cellular proteins via a
process named palmitoylation. Recognized for its roles in membrane
heralding, cell-cell signaling, and protein trafficking, palmitoylation is
also emerging as a potential regulator of metabolism. Indeed, we showed
previously that the acylation of two mitochondrial proteins at their
active site cysteine residues result in their inhibition. Herein, we
sought to identify other palmitoylated proteins in mitochondria, using a
non-toxic bio-orthogonal azido-palmitate analog that can be
selectively deconvoluted with various tagged triarylphosphines. Our
results show that, like palmitate, incorporation of azido-palmitate
occurred on mitochondrial proteins via thioester bonds at sites that could
be competed out by palmitoyl-CoA. Using this method, we identified 21
putative palmitoylated proteins in the rat liver mitochondrial matrix, a
compartment not recognized for its content in palmitoylated proteins, and
confirmed the palmitoylation of newly identified mitochondrial matrix
2-hydroxy-3-methylglutaryl-CoA synthase. We postulate that covalent
modification and perhaps inhibition of various mitochondrial enzymes by
palmitoyl-CoA could lead to the metabolic impairments found in
diabetes-related diseases.

- II 94062-11-7
R: ASO Analytical reagent use; NUT Analytical study; HESS (Use)
(Identification of palmitoylated mitochondrial proteins using a
bio-orthogonal azido-palmitate analog that is deconvoluted with various
tagged triarylphosphines)

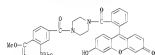
- IN 94062-11-7 CAPLUS
CN Benzamide acids, 2-(diisobutylphosphino)-4-[(2-{(E)-hydroxy-3-oxo-2H-naphthen-7-yl}benzoyl)-1-piperazinyl]acetyl-, methyl ester: CA INDEX NUMBER



- RE CNT TO THERE ARE 70 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

- LA NUMBER 6 OF 19 CAPLUS OMPRIEST 2006 ACS on STN
AN 2006 155493 CAPLUS
IN 148-111225
TI Imaging Cell Surface Glycans with Bioorthogonal Chemical Reporters
AU Chang, Jiapei Y.; Prescher, Jennifer A.; Bangerter, Matthew J.; Bertozzi, Carolyn R.
C2 Department of Chemistry and Molecular and Cell Biology and Howard Hughes
Medical Institute, University of California, Berkeley, CA 94720, USA
D1 Journal of the American Chemical Society (2007), 129(7), 9400-9400
D2 ISSN 1522-0718, ISSN 0002-7063
D3 CODEN JACSJ
D4 American Chemical Society
D5 English
D6 ACSBECT 147-271848
AS The visualization of biomols, as they function in living systems is
important for understanding complex mol. processes. Here, the authors
applied the bioorthogonal chemical reporter technique to image cell surface
glycans using multiple tetrazolyl labels. The authors introduced two
different chemical reporters into acidic and N-acetylglucosamine
(GlcNAc) residues and then simultaneously imaged their associated cell
surface glycans with fluorescent probes.

- II 94062-11-7
R: ASO Analytical reagent use; RU Biological use; unclassified; SPN
Synthetic preparation; NUT Analytical study; BMC Biological study;
PREP Preparation; HESS (Use)
IN 94062-11-7 CAPLUS
CN Benzamide acids, 2-(diisobutylphosphino)-4-[(2-{(E)-hydroxy-3-oxo-2H-naphthen-7-yl}benzoyl)-1-piperazinyl]acetyl-, methyl ester: CA INDEX NUMBER



- II 94062-11-7
R: NUT Chemical; SPN Synthetic preparation; PREP Preparation; NACT
Reactant or reagent
(Imaging cell surface glycans with bioorthogonal chemical reporters)
IN 94062-11-7 CAPLUS
CN Naphthalene-1-carboxylic acid, 2-hydroxy-3-oxo-2H-naphthen-7-yl- CA INDEX NUMBER



- RE CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

- LA NUMBER 6 OF 19 CAPLUS OMPRIEST 2006 ACS on STN (Continued)

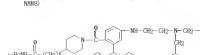
- LA NUMBER 6 OF 19 CAPLUS OMPRIEST 2006 ACS on STN
AN 2006 155493 CAPLUS
IN 148-111225
TI Advances in azide sensors for studying zinc release events from pancreatic
cells
AU Baumgaertel, Zeynep; Baumgaertel, Miriam; Crist, Georgia
C2 Univ. of New Orleans, New Orleans, LA 70118, USA
D1 Proceedings of SPIE-The International Society for Optical Engineering
D2 (2006), 6350-Chart Medical and Biomedical Sensor Technology IV,
63500K1-63500K9
D3 CODEN: PSIDJN; ISSN: 0277-7868
D4 SPIE-The International Society for Optical Engineering
D5 English
D6 This paper describes the fabrication and characterization of the small
properties of fluorescent-based zinc ion sensing glass slides and
antibody based zinc sensors and their application in monitoring zinc
release from beta pancreatic cells. The slide ion indicator ZnB-2 [6-(2-
N, N-bis (2-pyridylmethyl)-2'-aminoethyl)
amino-9', 9'-diethyltetrahydropyrimidin-5(1H)-yl] (ZnB-2) (naphthalen-3-yl)
was modified to include a sufficiently long linking aliphatic chain, with a
terminal cyanothio functional group. The activated cyanothio-modified
ZnB-2 was conjugated to the same silanized surface of glass slides and to
free amino groups of the E2B antibody mols. The sensors were used to
monitor zinc ion release events from glucose-stimulated pancreatic cells

- II 94062-11-7
R: ASO Analytical reagent use; unclassified; BMC Biological use,
unclassified; NUT Analytical study; BMC Biological study; HESS
(Use)
(Advances in zinc sensors for studying zinc release events from
pancreatic cells)

- IN 94062-11-7 CAPLUS
CN 4-Fluorobenzoic acid, 1-[4-{[2-(bis(2-pyridylmethyl)amino)ethyl]amino]-2-(6-hydroxy-3-oxo-2H-naphthen-7-yl)benzoyl}- CA INDEX NUMBER



- IN 94062-11-7 CAPLUS
CN 4-Fluorobenzoic acid, 1-[4-{[2-(bis(2-pyridylmethyl)amino)ethyl]amino]-2-(6-hydroxy-3-oxo-2H-naphthen-7-yl)benzoyl}- CA INDEX NUMBER



- RE CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

LA NUMBER 6 OF 19 CAPSULE COPYRIGHT 2008 ACS ON STN (Continued)

LA NUMBER 7 OF 19 CAPSULE COPYRIGHT 2008 ACS ON STN

AN 2006 121046H CAPSULE

IN 14C 1046H

TI Creation of superior carbonylfluorescence dyes by blocking donor-excited

photoinduced electron transfer

AD Mieno, Tomoko; Ueno, Takanori; Urano, Takanori; Kojima, Hirotsugu; Nagano,

Tetsuo

OR The University of Tokyo, 7-3-1

Hongo, Bunkyo-ku, Tokyo, 113-0033, Japan

SO Organic Letters (OOL), 8(20), 3080-3086

OORG 061077, 2006 1253-0006

JP American Chemical Society

JA English

AB CASREG1 14C 1046H

AB Carbonylfluorescences are widely utilized as fluorescence labeling reagents,

but we recently found that their emission intensity is markedly decreased

after esterification. On the basis of our hypothesis that the

fluorescence decrease is due to a donor-excited photoinduced electron

transfer (DET) process, we have developed novel carbonylfluorescence

derivatives in which the DET process is hampered, and the emission intensity

is not decreased upon esterification. These novel dye derivatives display

high quantum yields and are expected to be useful as labeling agents.

IT 061077-20-17

RE FRP (Fluorescence), RCT (Reactant), SYN (Synthetic preparation), TEM

(Technical or mechanical material use), PREP (Preparation), ONCT (Reactant

or reagent), USE (Use)

CO (Organic dye intermediate), separation of superior carbonylfluorescence dyes by

blocking donor-excited photoinduced electron transfer)

IN 070727-20-1 CAPSULE

ON 08-Karsten-S core, 6-hydroxy-9-(2-methoxy-4-(1-pyrroldimethylcarboxyl)phenyl)-

(CA INDEX NAME)

RECONT 01 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE PAK

LA NUMBER 8 OF 19 CAPSULE COPYRIGHT 2008 ACS ON STN

AN 2006 121046H CAPSULE

IN 14C 1046H

TI Medium-anchoring fluorescent probe

AD Karim, Tetsuo; Kojima, Hirotsugu; Otsuki, Takashi

OR The University of Tokyo, Japan

SO JCT Int Appl, 2006,

OORG 101010

JP Patent

JA Japanese

AN 2006 121046H

IN 14C 1046H

TI Medium-anchoring fluorescent probe

AD Karim, Tetsuo; Kojima, Hirotsugu; Otsuki, Takashi

OR The University of Tokyo, Japan

SO JCT Int Appl, 2006,

OORG 101010

JP Patent

JA Japanese

AN 2006 121046H

IN 14C 1046H

TI Medium-anchoring fluorescent probe

AD Karim, Tetsuo; Kojima, Hirotsugu; Otsuki, Takashi

OR The University of Tokyo, Japan

SO JCT Int Appl, 2006,

OORG 101010

JP Patent

JA Japanese

AN 2006 121046H

IN 14C 1046H

TI Medium-anchoring fluorescent probe

AD Karim, Tetsuo; Kojima, Hirotsugu; Otsuki, Takashi

OR The University of Tokyo, Japan

SO JCT Int Appl, 2006,

OORG 101010

JP Patent

JA Japanese

AN 2006 121046H

IN 14C 1046H

TI Medium-anchoring fluorescent probe

AD Karim, Tetsuo; Kojima, Hirotsugu; Otsuki, Takashi

OR The University of Tokyo, Japan

SO JCT Int Appl, 2006,

OORG 101010

JP Patent

JA Japanese

AN 2006 121046H

IN 14C 1046H

TI Medium-anchoring fluorescent probe

AD Karim, Tetsuo; Kojima, Hirotsugu; Otsuki, Takashi

OR The University of Tokyo, Japan

SO JCT Int Appl, 2006,

OORG 101010

JP Patent

JA Japanese

AN 2006 121046H

IN 14C 1046H

TI Medium-anchoring fluorescent probe

AD Karim, Tetsuo; Kojima, Hirotsugu; Otsuki, Takashi

OR The University of Tokyo, Japan

SO JCT Int Appl, 2006,

OORG 101010

JP Patent

JA Japanese

AN 2006 121046H

IN 14C 1046H

TI Medium-anchoring fluorescent probe

AD Karim, Tetsuo; Kojima, Hirotsugu; Otsuki, Takashi

OR The University of Tokyo, Japan

SO JCT Int Appl, 2006,

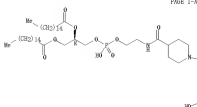
OORG 101010

JP Patent

JA Japanese

LA NUMBER 8 OF 19 CAPSULE COPYRIGHT 2008 ACS ON STN

PAGE 1-A



PAGE 1-B



IT 061077-20-17

RE FRP (Fluorescence), RCT (Reactant), SYN (Synthetic preparation), TEM

(Technical or mechanical material use), PREP (Preparation), ONCT (Reactant

or reagent), USE (Use)

CO (Organic dye intermediate), separation of superior carbonylfluorescence dyes by

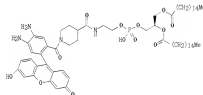
blocking donor-excited photoinduced electron transfer)

IN 070727-20-1 CAPSULE

ON 08-Karsten-S core, 6-hydroxy-9-(2-methoxy-4-(1-pyrroldimethylcarboxyl)phenyl)-

(CA INDEX NAME)

Absolute stereochemistry.



AB A medium-anchoring fluorescent probe is provided, which is composed of a compound wherein a residue of a phospholipid is bound with a residue of a fluorescent probe covalently via a linker (for example, a compound represented by the formula (I)). It has been shown that 1 function as a NO probe on cells.

IT 061077-20-17

RE FRP (Fluorescence), RCT (Reactant), SYN (Synthetic preparation), ANCT

(Analytical study), PREP (Preparation), USE (Use)

CO (Organic dye intermediate), separation of superior carbonylfluorescence dyes by

blocking donor-excited photoinduced electron transfer)

IN 070727-20-1 CAPSULE

ON Headacetic acid, (1R)-1-[[[2-[[[1,4,5,8-tetraazabicyclo[3.3.1]non-2-yl-6-hydroxy-9H-xanthin-9-yl]ethoxy]-4-oxo-1,4-dihydro-2H-pyran-2-yl]ethoxy]phosphoryl]ethoxy]ester (DCT) (CA INDEX NAME)

Absolute stereochemistry

L4 ANSWER 10 OF 19 CAPLIS COPYRIGHT 2006 ACS on STM (Continued)



RE CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 19 CAPULES COPYRIGHT 2006 ACS on STM

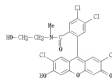
AN 20060811 00 19 CAPLIS CAPLIS
 AN 2006 096218 CAPLIS
 IN 143109183
 TI Kantenhe dyes
 IN Reddington, Mark; Lytle, Matt
 PA Bioscience Technologies, Inc., USA
 SO U.S. Pat. Appl. Publ., 62 pp.
 000000 USL000
 DT Patent
 LA English
 ERM 707.0

FNC CNT 2		PATENT NO	KIND	DATE	APPLICATION NO	DATE
PI	US	20040017006S	A1	2004-06-04	US 2004-82417S	2004-04-15
	US	7344701	B2	2003-03-18		
	EP	1740300	A1	2003-01-10	EP 2005-712900	2005-02-04
		F, AT, DE, DK, GB, CH, CY, CZ, DE, ES, FR, FI, PL, GR, Hk, IE,				
		IL, IT, JP, LE, LU, MC, ME, PL, PT, RO, SE, SI, SK, TR				
	US	200500214811	A1	2005-09-04		
PRAT	US	2004-641696P	P	2004-03-03		
	US	2004-82417S	A	2004-04-15		

00 MARPAT 143-169185
AB The invention provides a novel class of xanthene dyes, some of which are functionalized to allow their coupling to conjugation partners of interest, e.g. biomols., drugs, toxins and the like. Also provided are conjugates of the dyes, methods of preparing and using the dyes and their conjugates and kits including the dyes and their conjugates.

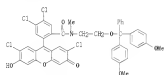
IT 861143-20-6 861143-23-8 861143-23-9
861143-24-0 861143-25-1
RL: RCT (Reactant); RACT (Reactant or reagent)

IN 861143-20-6 CAFIUS
 CN Benzamide, 4,5-dichloro-2-(2,7-dichloro-6-hydroxy-3-oxo-3H-xanthen-9-yl)-N-(2-hydroxyethyl)-N-methyl- (CA INDEX NAME)

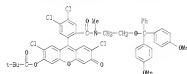


IN 861145-22-8 CAPLUS
CN Benzamide, N-[2-[bis(4-methoxyphenyl)phenylmethoxy]ethyl]-4,5-dichloro-2-
(5,7-dichloro-6-hydroxy-3-oxo-3H-xanthen-9-yl)-N-methyl- (CA INDEX NAME)

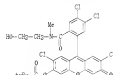
L4 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



IN 962142-23-9 CAPLUS
 CN Propanoic acid, 2,2-dimethyl-, 9-[2-[[[2-(bis(4-methoxyphenyl)phenylmethoxy)ethyl]methoxycarbonyl]-4,5-dichlorophenyl]-2,2-dichloro-3-oxo-3H-anthen-6-yl] ester (CA INDEX NAME)

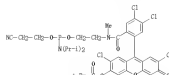


IN 040143-24-00 CAPLUS
 CN Propanoic acid, 2,2-dimethyl-, 2,7-dichloro-9-[4,5-dichloro-2-[(2-hydroxyethyl)methylamino]carbonyl]phenyl]-8-oxo-3H-xanthen-6-yl ester (CA
 INDEX NAME)



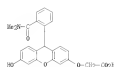
RN 961145-26-1 CAPLINS
 CN Propanoic acid, 2,2-dimethyl-, 9-[[[2-[[[bis(1-methylethyl)amino]-(2-cyanoethoxy)phosphoryl]oxy]ethyl]methylamino]carbonyl]-4,5-dichlorophenyl]-2,2-dichloro-3-oxo-3H-xanthen-6-yl ester (CA INDEX NAME)

L4 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2006 ACS on STM (Continued)



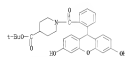
RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

LA JENNER 12 06 19 CAPLIS OFFPRINT 2006 ACS on STM
AN 2002-04762 CAPLIS
IN 137-7470
TI Anthraquinone Fluorescent dyes
AU Gen. Jianxin Kase, Pengyu Qiao, Roger W
CS Department of Pharmaceutical Sciences in the Boon College of Pharmacy and
Health Professions, Baruch Institute and Chemistry Department
59 Northeastern University, Boston, MA, 02115, USA
DO Multistat Chemistry 2002, 7(12), 6297-6307
OSCN ANCHAM, ISSN 0002-2100
PS Baruch Chemical Society
DS Journal
DI
AS
CS 137-7470
TI The dyes of fluorescence, termed "anthraquinones", were prepared from
fluorescein, an isomeric dye. Relative to fluorescein, which contains
a fluorophore (I) and a 2'-carbonyl, the first derivative contains a
carboxymethyl ester at the 6-position and a secondary amine of
dimethylamine at the 7-position. The second derivative (II) contains a
corresponding 6-ethoxy ester and a secondary amine of dimethylamine at the
7-position. Then, both dyes contain a single carbonyl group, making
them nonfluorescent. I is much more photostable (about 30 times) than
the other fluorescein or BODIPY dyes when exposed to ordinary light
(various light bulbs). When tested for relative response in a capillary
electrophoresis instrument fitted with an argon ion laser detector (488
nm) and a band-pass emission filter, I was found to be 4-fold less bright
than fluorescein. Both anthraquinones, consistent with prior literature on
6-substituted fluoresceins, exhibit relatively pH-independent fluorescence
(at 4-10 was tested here). Because they possess two absorbance maxima, the
anthraquinones can be excited over a broader wavelength range than
fluorescein or BODIPY. These collective properties of the anthraquinones
will make them advantageous over fluorescein and BODIPY dyes for some
applications.
IT 48067-16-0P 48067-50-4P
RE FRF (Preparation), CN (Synthetic preparation), TM (Technical or
engineered material use), PREP (Preparation), USE (Use)
dy, dye, preparation and fluorescence of anthraquinone (fluorescence derivative dyes)
IN 48067-16-0 CAPLIS
CN Acetic acid, 2-[[1-[2-[[dimethylamino]carbonyl]phenyl]-6-hydroxy-9H-
anthracen-9-yl]oxy]]- CA INDEX NAME

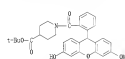


IN 48067-26-4 CAPLIS
CN 4-fluoridiphenylacetic acid, 1-[2-[[6-hydroxy-6-methoxy-9H-anthracen-9-yl]benzoyl]], 1,1-dimethyl-]]- CA INDEX NAME

LA JENNER 12 06 19 CAPLIS OFFPRINT 2006 ACS on STM (Continued)

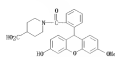


IN 48067-88-7 CAPLIS
CN 4-fluoridiphenylacetic acid, 1-[2-[[6-hydroxy-6-methoxy-9H-anthracen-9-yl]benzoyl]], 1,1-dimethyl-]]- CA INDEX NAME



RE CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE PAMVAT

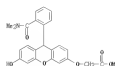
LA JENNER 12 06 19 CAPLIS OFFPRINT 2006 ACS on STM (Continued)



IT 44121-58-0P 48067-71-0P 48067-88-7P
RE RLT (Reactant), JN (Synthetic preparation), PREP (Preparation), RMT
(Reactant or reagent)
intermediate; preparation and fluorescence of anthraquinone fluorescence derivative
IN 44121-58-4 CAPLIS
CN Benzoic acid, 2-[[1-[2-[[dimethylamino]carbonyl]phenyl]-6-hydroxy-9H-
anthracen-9-yl]oxy]]- CA INDEX NAME



IN 48067-71-8 CAPLIS
CN Acetic acid, 2-[[1-[2-[[dimethylamino]carbonyl]phenyl]-6-hydroxy-9H-
anthracen-9-yl]oxy]], methyl ester CA INDEX NAME



IN 48067-81-0 CAPLIS
CN 4-fluoridiphenylacetic acid, 1-[2-[[6-hydroxy-6-methoxy-9H-anthracen-9-yl]benzoyl]],
1,1-dimethyl-]]- CA INDEX NAME

LA JENNER 12 06 19 CAPLIS OFFPRINT 2006 ACS on STM
AN 2002-03672 CAPLIS
IN 137-96164
TI Fluorescent anthraquinone derivative dyes, their production and their use
AU Gen. Jianxin Kase, Roger W
CS Northeastern University, USA
DO PCT Int. Appl., 28 pp.
OSCN FPLIS
PS Patent
DS Baruch
FAN CNT

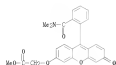
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE			
PI	W9	200005512	A1	200003018	W9	2000-15801	2002010
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	BR	US					
	CA	US					
	MX	US					
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	PT	US					

LA ANWER 13 0F 19 CAPLUS OMPYRIGHT 2006 ACS on STN (Continued)

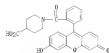
- IT 442151-46-4P 442151-48-4P 442151-52-2P
442151-54-4P 442151-56-4P
RE 3MP (Substituted piperazine), RCT (Reactant), PEP (Preparation), RACT
(Reactant or reagent)
RN 442151-46-4 CAPLUS
CN Benzoic acid, 2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)-N,N-dimethyl- (CA INDEX NAME)



- RN 442151-48-4 CAPLUS
CN Metic acid, 2-[(9-[2-[(dimethylamino)carbonyl]phenyl]-5-oxo-3H-xanthen-6-yl)oxy]-, methyl ester (CA INDEX NAME)



- RN 442151-52-2 CAPLUS
CN 4-Fluorodipicacetic acid, 1-[2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)benzoyl]- (CA INDEX NAME)



- RN 442151-54-4 CAPLUS
CN 4-Fluorodipicacetic acid, 1-[2-(6-methoxy-3-oxo-3H-xanthen-9-yl)benzoyl]-, methyl ester (CA INDEX NAME)



LA ANWER 14 0F 19 CAPLUS OMPYRIGHT 2006 ACS on STN

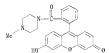
- LA 0000-00024 CAPLUS
IN 137-215869
IT Fluorescein-based pH markers for capillary isoelectric focusing with laser-induced fluorescence detection
AU Saito, Isao, Hiroko, Morio, Norihiro, Jana, Friedl, Jönnak
CN Institute of Analytical Chemistry, Academy of Sciences of the Czech Republic, Brno, CS-60200, Czech Rep.
SO Electrochroma (CMO), 20(11), 1682-1688
0000-4170, 2008 0129-0803
PB Wiley-VCH Verlag GmbH
PT Journal
LA English
AB We prepared a series of [formyl]-mass fluorescent ampholytes with narrow pI range. These fluorescein-based ampholytes are detection compatible with on-line laser-induced fluorescence (LIF) detection. The selected properties, important for their routine use as fluorescent pH markers, were explained. The pI values of new fluorescein-based pH markers were determined by capillary isoelectric focusing (CIEF) using currently available [formyl]-mass pH markers for CIEF with photometric detection. The examples of CIEF with fluorescence detection of new compounds, together with fluorescein isothiocyanate (FITC) derivatized proteins are presented.

- IT 442312-79-4
RE 480 (Analytical reagent); ANST (Analytical study); USBS (Uses)
(Fluorescein-based pH markers for capillary isoelectric focusing with laser-induced fluorescence detection)

- RN 442312-79-4 CAPLUS
CN 3H-Xanthen-9-one, 6-hydroxy-9-[2-(4-piperazinyl)carbonyl]phenyl]- (CA INDEX NAME)

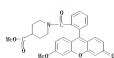


- RN 442312-79-1 CAPLUS
CN 3H-Xanthen-9-one, 6-hydroxy-9-[2-(4-methyl-1-piperazinyl)carbonyl]phenyl]- (CA INDEX NAME)



- RN 442312-77-3 CAPLUS
CN 3H-Xanthen-9-one, 9-[2-[(4-ethyl-1-piperazinyl)carbonyl]phenyl]- 6-hydroxy- (CA INDEX NAME)

LA ANWER 13 0F 19 CAPLUS OMPYRIGHT 2006 ACS on STN (Continued)

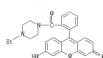


- RN 442151-58-4 CAPLUS
CN Benzoic acid, 2-(6,6'-dihydroxy-3H-xanthen-9-yl)-N,N-dimethyl- (CA INDEX NAME)

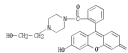


- RE CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORWARD

LA ANWER 14 0F 19 CAPLUS OMPYRIGHT 2006 ACS on STN (Continued)



- RN 442312-79-5 CAPLUS
CN 3H-Xanthen-9-one, 6-hydroxy-9-[2-[(4-(2-hydroxyethyl)-1-piperazinyl)carbonyl]phenyl]- (CA INDEX NAME)

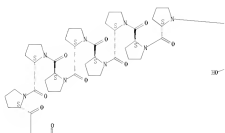


- RE CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORWARD

[illegible]

Absolute stereochemistry.

PAGE 2-A



L4 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2006 ACS on STM
AN 1967-087457 CAPLUS
UN 107187457
ORIG 10729907a, 29910a
11 INANE-FORMER composition
Suzuki, Shiroki, Genda, Michihiko, Ohara, Toshio
PA Nodogawa Chemical Co. Ltd., Japan
50 Inc. Kokai Tokyo Koba, 8 sp.
DE CORDEN JUKKAP
LA Patent
LA Japanese
RAN CNT. 1

	PATENT NO	KIND	DATE	APPLICATION NO	DATE
PI	JP 62094941	A	19870601	JP 1985-233545	19851002
	JP 08065012	B	19900616		
PRAT	JP 1986-233545		19851001		
OT					

[illegible]

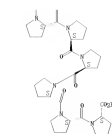
BN 116045-ES-6 CAPLIS
CN Benzamide, 2-[3,6-diethoxy-9H-xanthen-9-yl]-N,N-diphenyl- (CA INDEX)

LA ANSWER 15 OF 19 CAPLUS COPYRIGHT 2006 ACS on STM (Continued)

PAGE 1-3



PAGE 2-A



RE.CMT 62 THERE ARE 62 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE SE FORMAT

L4 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2008 ACS on STM (Continued)

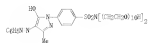


IN	110005-02-1	CAPLUS	
CN	Benzamide, 2-(3,6-dimethoxy-9H-xanthen-2-yl)-N,N-diethyl-		(CA INDEX NAME)



LA ANSWER 17 OF 19 CAPLUS OFFRIGHT 2006 ACS on STN
 AN 1964-105559 CAPLUS
 IN 1960-100559
 ORIP 1960-241294,241295
 TI Benzidine Isourea
 PA Canon K. K., Japan
 SO Jpn. Kokai Shiko Koho, 11 pp.
 ODOM: JICJAP
 PT Patent
 LA Japanese
 PUBL CRT

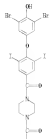
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
F1	<input checked="" type="checkbox"/> B1B1372	A	19631109	19630606
FRAT	<input checked="" type="checkbox"/> B1B1372	B	19630606	
GI	<input checked="" type="checkbox"/> 1962-19678		19630606	



AB Detonating sticks are prepared which contain dyes having substituents CONHRI or CONHRS, LA, R1 = CONHCOOH or CONHCOOH, n = 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 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LA ANKER 16 06 19 CAPLIC OMFYRIGHT 2006 ACS on STM (Continued)

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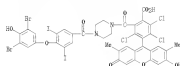


PAGE 2-A



BS 5000-73-1 CAPLIC

CN Benzoic acid, 2,3,5-trichloro-6-[[4-[4-O,5-dibromo-4-hydroxyphenoxy]-3,5-dihydroxy-2,7-pyridinediyl]carbonyl]-4'-O-hydroxy-2,7-dimethyl-3-oxo-2H-naphthalen-9-yl]- (CA INDEX NAME)



LA ANKER 19 06 19 CAPLIC OMFYRIGHT 2006 ACS on STM

AN 1264-47480 CAPLIC

BR 87-14082

ORIP 8111906a, 11906a

T1 Mechanism of action of coumestrolone blue agar in the differentiation of

Escherichia coli and Enterobacter aerogenes

Hewlett, K. S.; Hays, R. E.

CS Dep. Biol., Bowling Green State Univ., Bowling Green, OH, USA

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JF Journal

LA England

AS The mechanism involved in the action of coumestrolone blue agar (CBM) in differentiating *E. coli* from *E. aerogenes* was investigated using prototrophic strains of these organisms and a Lac⁺ auxotroph, *E. coli* 4-80. The final pH of the CBM agar resulting from growth of these organisms at the expense of lactose was shown to play a critical role in the differential action. An IMO complex, which formed under acidic conditions, may be involved in the differential action of this medium. The mol. weight of the complex indicated an equimolar coumestrolone ratio of 1 to 1. Infrared and ¹³C NMR data indicated the occurrence of an amide bond between the dyes when complexing occurred. On this basis, a mechanism for complexing of coumestrolone and methylene blue, under acidic conditions, was proposed.

IT 82946-21-1F

RL 2PM Synthetic preparation(s) PREP (Preparation)

(preparation of)

BS 82946-21-1 CAPLIC

CN 100-Phenothiazine-3,7-diazine, N,N,N',N'-tetramethyl-10-[2-(2,4,6,7-tetrabromo-6'-hydroxy-3-oxo-2H-naphthalen-9-yl)benzoyl]-, sodium salt (SC)

(CA INDEX NAME)



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FILE 'REGISTRY' ENTERED AT 10:08:34 ON 06 NOV 2008

L1 STRUCTURE UPLOADED

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L2 2 SEA SSS SAM L1

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